RO 404

Shell Oil Products US

December 3, 2003

eva chu DH
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Former Shell Service Station/Current 24-7 Quick Mart Service Station**
8930 Bancroft Avenue
Oakland, California

Dear Ms. chu:

Attached for your review and comment is a copy of the *Third Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

P.O. Box 7869 Burbank, CA 91510-7869 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

December 3, 2003

eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: **Third Quarter 2003 Monitoring Report**
Former Shell Service Station/Current 24-7 Quick Mart Service Station
8930 Bancroft Avenue
Oakland, California
Incident #98995742
Cambria Project #245-1408-002

Dear Ms. chu:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d. The site is located on the corner of Bancroft Avenue and 90th Avenue in Oakland, California (Figures 1 and 2). Shell ceased operations in July 1999, when three 10,000-gallon fiberglass USTs and associated piping and dispensers were removed and replaced at the site. The site is currently owned and operated by 24-7 Quick-Mart.

REMEDIATION SUMMARY

2000 Mobile Groundwater Extraction (GWE): Weekly mobile GWE was performed on well MW-4 during March through May 2000. Mobile GWE is the process of extracting groundwater from wells using a vacuum truck. In this process, the vacuum created by the truck is applied to a dedicated extraction "stinger" installed in the extraction well. The extracted water is contained by the truck and removed from the site for disposal. The volume of extracted fluid is recorded and used to calculate the quantity of aqueous-phase constituents removed from the subsurface. Approximately 1,875 gallons of water were extracted from well MW-4, and an estimated total of 0.003 pounds of total petroleum hydrocarbons as gasoline (TPHg) and 0.1 pounds of methyl tertiary butyl ether (MTBE) were removed. GWE was discontinued due to low extraction volumes.

Cambria Environmental Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

2002 Mobile GWE: Due to the presence of separate phase hydrocarbons (SPH) in well MW-5 beginning in February 2002, four additional weekly mobile GWE events using well MW-5 were conducted at the site in August 2002. An estimated total of 0.04 pounds of TPHg and 0.10 pounds of MTBE were removed from the subsurface. During the initial extraction event, approximately 0.02 feet of SPH were measured in well MW-5 prior to extraction. No SPH had been detected in MW-5 since the August 2002 extraction events; however, SPH was encountered once again in well MW-5 during the June 30, 2003 sampling event. Cambria reinstated mobile GWE for two semi-weekly events in September 2003. Mass removal data is summarized in Table 1. No SPH was observed in the September 25, 2003 quarterly monitoring event.

THIRD QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled selected site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map that includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

ANTICIPATED FOURTH QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine will gauge all site wells, sample selected site wells, and tabulate the data. Cambria will prepare a monitoring report.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Melody Munz
Project Engineer

Matthew W. Derby, P.E.
Senior Project Engineer

Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Table: 1 - Groundwater Extraction – Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
Leroy Griffin, Fire Prevention Bureau, 250 Frank Ogawa Plaza, 3rd Floor, Suite 3341, Oakland, CA 94612
Sidhu Associates, 8930 Bancroft Ave., Oakland, CA 94605

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06/24/03

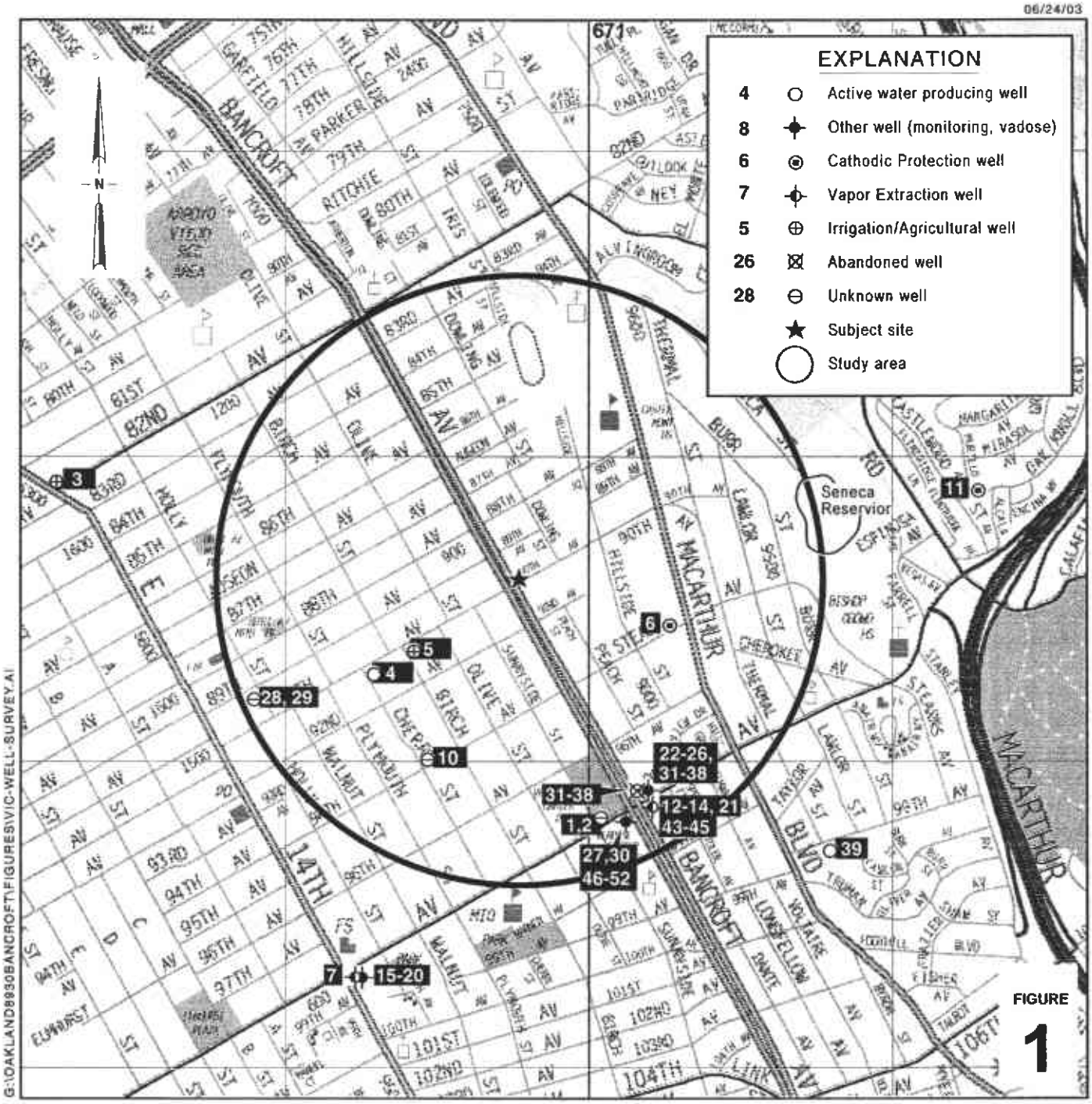

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FIGURE 1

0 1/8 1/4 1/2 1

SCALE 1" = 1/4 MILE

Former Shell-branded Station/ Current 24-7 Quick Mart Service Station

8930 Bancroft Avenue

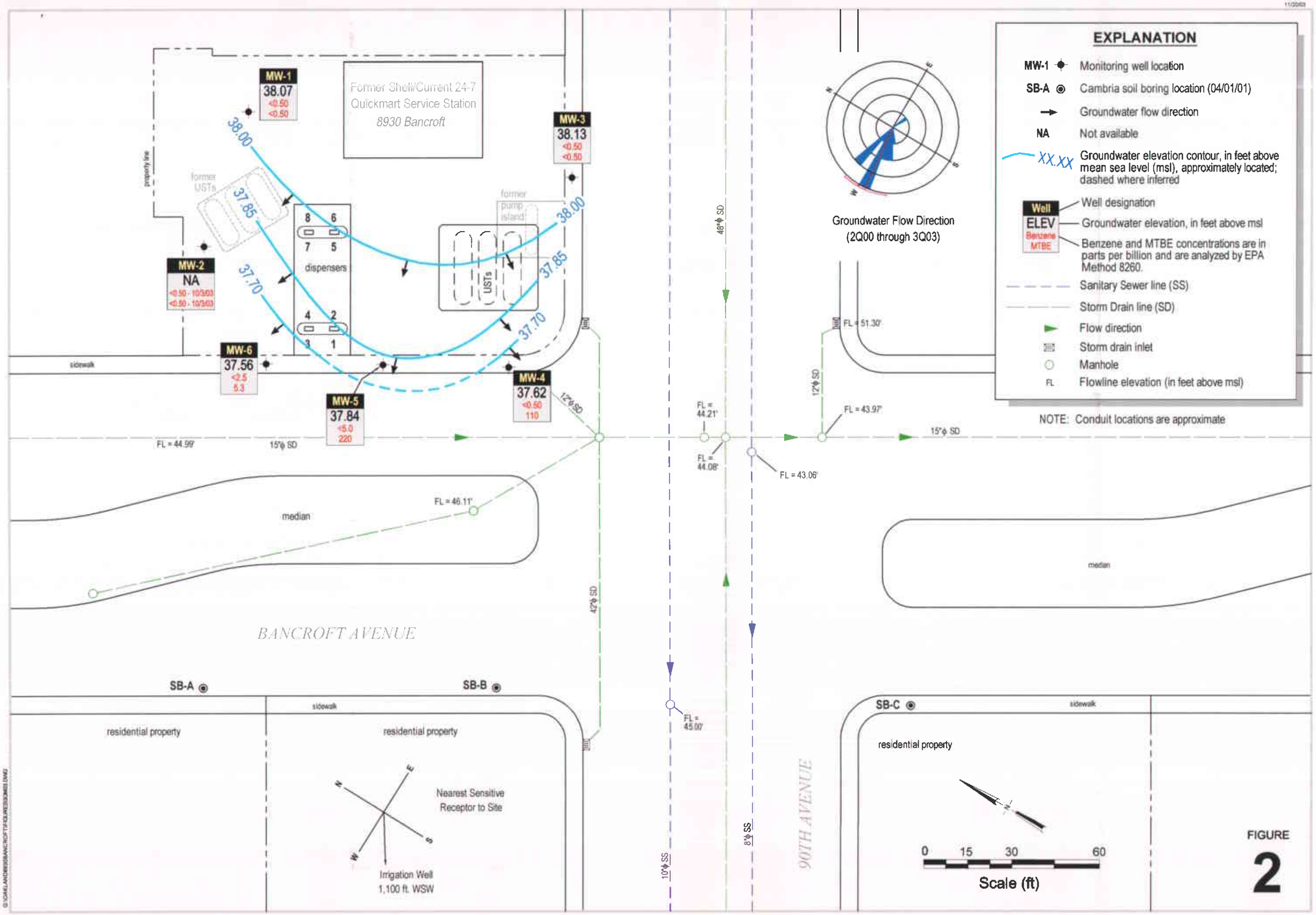
Oakland, California

Incident #98995742

CAMBRIA

Vicinity/Area Well Survey Map

(1/2 Mile Radius)



Groundwater Elevation Contour Map

September 25, 2003

CAMBRIA

Former Shell-branded/Current 24-7 Quick Mart Service Station

8930 Bancroft Avenue
Oakland, California
Incident #98995742

FIGURE

2

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995742, 8930 Bancroft Avenue, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPPH			**Benzene**			**MTBE**		
03/15/00	MW-4	650	650	12/23/99	<100	0.00027	0.00027	<1.0	0.00000	0.00000	8,400	0.04556	0.04556
03/22/00	MW-4	100	750	03/22/00	<500	0.00021	0.00048	<5.00	0.00000	0.00000	5,020	0.00419	0.04975
03/27/00	MW-4	75	825	03/22/00	<500	0.00016	0.00064	<5.00	0.00000	0.00001	5,020	0.00314	0.05289
04/03/00	MW-4	150	975	03/22/00	<500	0.00031	0.00095	<5.00	0.00000	0.00001	5,020	0.00628	0.05917
04/17/00	MW-4	300	1,275	03/22/00	<500	0.00063	0.00157	<5.00	0.00001	0.00002	5,020	0.01257	0.07174
04/24/00	MW-4	150	1,425	03/22/00	<500	0.00031	0.00189	<5.00	0.00000	0.00002	5,020	0.00628	0.07802
05/01/00	MW-4	75	1,500	03/22/00	<500	0.00016	0.00204	<5.00	0.00000	0.00002	5,020	0.00314	0.08117
05/08/00	MW-4	150	1,650	03/22/00	<500	0.00031	0.00236	<5.00	0.00000	0.00002	5,020	0.00628	0.08745
05/15/00	MW-4	75	1,725	03/22/00	<500	0.00016	0.00251	<5.00	0.00000	0.00003	5,020	0.00314	0.09059
05/22/00	MW-4	75	1,800	03/22/00	<500	0.00016	0.00267	<5.00	0.00000	0.00003	5,020	0.00314	0.09373
05/29/00	MW-4	75	1,875	03/22/00	<500	0.00016	0.00283	<5.00	0.00000	0.00003	5,020	0.00314	0.09687
08/08/02	MW-5	163	163	08/08/02	350	0.00048	0.00048	<0.50	0.00000	0.00000	65	0.00009	0.00009
08/16/02	MW-5	218	381	08/16/02	16,000	0.02911	0.02958	<2.5	0.00000	0.00000	310	0.00056	0.00065
08/16/02	MW-5	0	381	08/16/02	58	0.00000	0.02958	<0.50	0.00000	0.00000	60	0.00000	0.00065
08/22/02	MW-5	377	758	08/22/02	1,500	0.00472	0.03430	<0.50	0.00000	0.00000	110	0.00035	0.00100
08/29/02	MW-5	146	904	08/22/02	120	0.00015	0.03445	<0.50	0.00000	0.00000	76	0.00009	0.00109
09/09/03	MW-5	252	1,156	03/28/03	240	0.00050	0.03495	<0.50	0.00000	0.00000	130	0.00027	0.00136
09/17/03	MW-5	70	1,226	03/28/03	240	0.00014	0.03509	<0.50	0.00000	0.00000	130	0.00008	0.00144
Total Gallons Extracted:			**3,101**		**Total Pounds Removed:**		**0.03792**			**0.00003**			**0.09831**
					Total Gallons Removed:		**0.00622**			**0.00000**			**0.01586**

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995742, 8930 Bancroft Avenue, Oakland, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
ppb = Parts per billion
gal = Gallon
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH, benzene, and MTBE analyzed by EPA Method 8260
Concentrations based on most recent groundwater monitoring results
If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.
Groundwater extracted by vacuum trucks provided by Onyx. Water disposed of at a Martinez Refinery.

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

October 27, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Third Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
8930 Bancroft Avenue
Oakland, CA

Monitoring performed on September 25
and October 3, 2003

Groundwater Monitoring Report **030925-AC-1**

This report covers the routine monitoring of groundwater wells at this former Shell facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheet

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
8930 Bancroft Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
MW-1	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	11.87	NA	41.32	NA	NA
MW-1	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.21	NA	44.98	NA	NA
MW-1	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	15.04	NA	38.15	NA	NA
MW-1	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	16.02	NA	37.17	NA	NA
MW-1	12/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.78	NA	38.41	NA	NA
MW-1	03/22/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.44	NA	44.75	NA	NA
MW-1	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	13.71	NA	39.48	NA	NA
MW-1	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.95	NA	38.24	NA	NA
MW-1	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.82	NA	53.19	13.85	NA	39.34	NA	NA
MW-1	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	9.07	NA	44.12	NA	NA
MW-1	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	14.90	NA	38.29	NA	NA
MW-1	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	53.19	15.53	NA	37.66	NA	NA
MW-1	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	53.19	10.41	NA	42.78	NA	3.8
MW-1	02/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<0.50	53.19	11.09	NA	42.10	NA	NA
MW-1	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	53.19	14.13	NA	39.06	NA	NA
MW-1	09/09/2002	NA	NA	NA	NA	NA	NA	NA	NA	53.20	15.55	NA	37.65	NA	NA
MW-1	12/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	53.20	8.67	NA	44.53	NA	NA
MW-1	03/28/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	53.20	13.33	NA	39.87	NA	NA
MW-1	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	53.20	14.71	NA	38.49	NA	NA
MW-1	**09/25/2003**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**53.20**	**15.13**	**NA**	**38.07**	**NA**	**NA**
MW-2	12/17/1998	9,900	NA	<5.0	37	22	47	48	<20	52.66	11.65	NA	41.01	NA	NA
MW-2	03/09/1999	2,760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	NA	44.59	NA	NA
MW-2	06/16/1999	2,570	NA	36.3	11.6	6.19	10.8	<50.0	NA	52.66	14.63	NA	38.03	NA	NA
MW-2	09/30/1999	1,960	NA	19.1	3.20	4.55	26.9	<25.0	NA	52.66	15.63	NA	37.03	NA	NA
MW-2	12/23/1999	145	NA	1.30	<0.500	<0.500	0.899	<2.50	NA	52.66	14.42	NA	38.24	NA	NA
MW-2	03/22/2000	6,060	NA	18.9	<10.0	210	651	<100	NA	52.66	8.19	NA	44.47	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
8930 Bancroft Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
MW-2	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	11.46	NA	41.20	NA	NA
MW-2	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	14.63	NA	38.03	NA	NA
MW-2	12/04/2000	201	NA	1.35	<0.500	3.39	8.58	<2.50	NA	52.66	13.45	NA	39.21	NA	NA
MW-2	03/09/2001	396	NA	2.82	<0.500	8.69	18.7	<2.50	NA	52.66	8.89	NA	43.77	NA	NA
MW-2	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	52.66	14.88	NA	37.78	NA	NA
MW-2	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	52.66	15.19	NA	37.47	NA	NA
MW-2	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	52.66	10.02	NA	42.64	NA	2.8
MW-2	02/26/2002	180	NA	<0.50	<0.50	2.7	4.1	NA	<0.50	52.66	10.76	NA	41.90	NA	NA
MW-2	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	52.66	13.83	NA	38.83	NA	NA
MW-2	09/09/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	52.66	15.23	NA	37.43	NA	NA
MW-2	12/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	52.66	8.46	NA	44.20	NA	NA
MW-2	03/28/2003	53	NA	<0.50	<0.50	0.51	1.4	NA	<5.0	52.66	12.96	NA	39.70	NA	NA
MW-2	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	52.66	14.49	NA	38.17	NA	NA
MW-2	**09/25/2003**	**Well inaccessible**		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**52.66**	**NA**	**NA**	**NA**	**NA**	**NA**
MW-2	**10/03/2003**	**54 c**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**<0.50**	**52.66**	**15.03**	**NA**	**37.63**	**NA**	**NA**
MW-3	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	10	11	51.30	11.85	NA	39.45	NA	NA
MW-3	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	6.53	NA	44.77	NA	NA
MW-3	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	12.71	NA	38.59	NA	NA
MW-3	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.14	NA	51.30	14.07	NA	37.23	NA	NA
MW-3	12/23/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	<25.0	NA	51.30	12.82	NA	38.48	NA	NA
MW-3	03/22/2000	<50.0	NA	<0.500	1.48	<0.500	1.90	<5.00	NA	51.30	6.81	NA	44.49	NA	NA
MW-3	06/01/2000	<50.0	NA	<0.500	0.821	<0.500	<0.500	4.39	NA	51.30	11.85	NA	39.45	NA	NA
MW-3	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3.62	NA	51.30	12.55	NA	38.75	NA	NA
MW-3	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	0.588	4.74	NA	51.30	11.65	NA	39.65	NA	NA
MW-3	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.30	7.28	NA	44.02	NA	NA
MW-3	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.30	13.16	NA	38.14	NA	NA
MW-3	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.30	13.35	NA	37.95	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
8930 Bancroft Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
MW-3	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.30	8.14	NA	43.16	NA	1.2
MW-3	02/26/2002	<50	NA	<0.50	7.2	<0.50	<0.50	NA	1.5	51.30	9.09	NA	42.21	NA	0.6
MW-3	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.30	12.13	NA	39.17	NA	0.8
MW-3	09/09/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.35	13.54	NA	37.81	NA	1.0
MW-3	12/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.35	6.75	NA	44.60	NA	0.6
MW-3	03/28/2003	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.35	11.28	NA	40.07	NA	0.7
MW-3	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	51.35	12.68	NA	38.67	NA	NA
MW-3	**09/25/2003**	**<50**	**NA**	**<0.50**	**2.0**	**0.73**	**<1.0**	**NA**	**<0.50**	**51.35**	**13.22**	**NA**	**38.13**	**NA**	**NA**
MW-4	12/17/1998	700	NA	4.3	0.88	<0.50	<0.50	21,000	26,000	50.73	10.80	NA	39.93	NA	NA
MW-4	03/09/1999	83.9	NA	<0.500	<0.500	<0.500	<0.500	17,900	23,700	50.73	6.91	NA	43.82	NA	NA
MW-4	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	10,600	19,200	50.73	12.84	NA	37.89	NA	NA
MW-4	09/30/1999	51.2	NA	<0.500	<0.500	<0.500	<0.500	12,200	12,300	50.73	13.74	NA	36.99	NA	NA
MW-4	12/23/1999	<100	NA	<1.00	<1.00	<1.00	<1.00	7,990	8,400	50.73	12.40	NA	38.33	NA	NA
MW-4	03/22/2000	<500	NA	<5.00	<5.00	<5.00	<5.00	4,970	5,020	50.73	7.32	NA	43.41	NA	NA
MW-4	06/01/2000	<100	NA	<1.00	<1.00	<1.00	<1.00	5,260	3,580	50.73	11.50	NA	39.23	NA	NA
MW-4	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3,610	3,300a	50.73	12.55	NA	38.18	NA	NA
MW-4	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	2,960	3,520a	50.73	11.77	NA	38.96	NA	NA
MW-4	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	1,930	2,500	50.73	7.48	NA	43.25	NA	NA
MW-4	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	1,100	1,100	50.73	12.97	NA	37.76	NA	NA
MW-4	09/20/2001	<250	NA	3.8	14	2.6	7.8	NA	940	50.73	13.30	NA	37.43	NA	NA
MW-4	12/05/2001	<200	NA	<2.0	<2.0	<2.0	<2.0	NA	750	50.73	8.41	NA	42.32	NA	1.2
MW-4	02/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	320	50.73	9.40	NA	41.33	NA	0.7
MW-4	06/06/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	160	50.73	11.97	NA	38.76	NA	0.6
MW-4	09/09/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	50	50.72	13.23	NA	37.49	NA	3.6
MW-4	12/19/2002	Unable to sample		NA	NA	NA	NA	NA	NA	50.72	7.08	NA	43.64	NA	0.8
MW-4	12/26/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	47	50.72	7.23	NA	43.49	NA	1.8
MW-4	03/28/2003	<50	NA	<0.50	1.2	<0.50	<0.50	NA	17	50.72	11.30	NA	39.42	NA	1.7

WELL CONCENTRATIONS
Former Shell Service Station
8930 Bancroft Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
MW-4	06/30/2003	54 c	NA	<0.50	<0.50	<0.50	<1.0	NA	16	50.72	12.51	NA	38.21	NA	NA
MW-4	**09/25/2003**	**<50**	**NA**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**NA**	**110**	**50.72**	**13.10**	**NA**	**37.62**	**NA**	**NA**
MW-5	12/17/1998	750	NA	<0.50	17	1.8	3.5	33	32	51.43	11.51	NA	39.92	NA	NA
MW-5	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.43	7.15	NA	44.28	NA	NA
MW-5	06/16/1999	646	NA	9.26	1.05	<1.00	<1.00	<10.0	NA	51.43	13.47	NA	37.96	NA	NA
MW-5	09/30/1999	484	NA	1.93	0.511	<0.500	<0.500	159	NA	51.43	14.41	NA	37.02	NA	NA
MW-5	12/23/1999	944	NA	4.59	17.7	3.79	16.7	214	NA	51.43	14.07	NA	37.36	NA	NA
MW-5	03/22/2000	8,770	NA	197	96.5	<50.0	188	2,450	NA	51.43	7.31	NA	44.12	NA	NA
MW-5	06/01/2000	227	NA	0.565	<0.500	<0.500	<0.500	35.9	NA	51.43	12.15	NA	39.28	NA	NA
MW-5	09/08/2000	159	NA	0.606	<0.500	<0.500	1.74	1,000	NA	51.43	13.30	NA	38.13	NA	NA
MW-5	12/04/2000	1,510	NA	19.2	<10.0	<10.0	134	1,360	NA	51.43	12.19	NA	39.24	NA	NA
MW-5	03/09/2001	3,460	NA	37.9	121	40.6	208	235	NA	51.43	7.79	NA	43.64	NA	NA
MW-5	06/27/2001	310	NA	0.97	<0.50	<0.50	<0.50	14	NA	51.43	13.89	NA	37.54	NA	NA
MW-5	09/20/2001	310	NA	<0.50	<0.50	<0.50	<0.50	NA	21	51.43	13.95	NA	37.48	NA	NA
MW-5	12/05/2001	8,800	NA	14	2.9	33	410	NA	2,300	51.43	8.89	NA	42.54	NA	0.6
MW-5	02/26/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	9.87	NA	NA	b	NA
MW-5	03/12/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	8.84	8.64	42.75	0.20	NA
MW-5	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.43	12.59	12.54	38.88	0.05	NA
MW-5	09/09/2002	210	NA	<0.50	<0.50	<0.50	0.90	NA	200	51.44	13.94	NA	37.50	NA	NA
MW-5	12/19/2002	Unable to sample		NA	NA	NA	NA	NA	NA	51.44	7.35	NA	44.09	NA	NA
MW-5	12/26/2002	1,400	NA	<0.50	21	6.9	60	NA	180	51.44	7.13	NA	44.31	NA	NA
MW-5	03/28/2003	240	NA	<0.50	<0.50	<0.50	2.1	NA	130	51.44	11.73	NA	39.71	NA	NA
MW-5	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	51.44	13.34	13.30	38.13	0.04	NA
MW-5	**09/25/2003**	**12,000**	**NA**	**<5.0**	**<5.0**	**24**	**210**	**NA**	**220**	**51.44**	**13.60**	**NA**	**37.84**	**NA**	**NA**
MW-6	12/17/1998	940	NA	27	0.32	2.4	2.3	3.0	3.2	51.88	11.37	NA	40.51	NA	NA
MW-6	03/09/1999	336	NA	7.78	1.60	2.40	6.36	<10.0	NA	51.88	8.10	NA	43.78	NA	NA

WELL CONCENTRATIONS
Former Shell Service Station
8930 Bancroft Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)
MW-6	06/16/1999	308	NA	2.45	<0.500	<0.500	<0.500	7.39	NA	51.88	14.49	NA	37.39	NA	NA
MW-6	09/30/1999	80.2	NA	<0.500	<0.500	<0.500	<0.500	24.8	NA	51.88	15.30	NA	36.58	NA	NA
MW-6	12/23/1999	149	NA	0.518	<0.500	<0.500	<0.500	6.43	NA	51.88	13.19	NA	38.69	NA	NA
MW-6	03/22/2000	382	NA	3.31	2.18	0.619	2.35	5.61	NA	51.88	8.27	NA	43.61	NA	NA
MW-6	06/01/2000	158	NA	0.830	<0.500	<0.500	1.10	10.9	NA	51.88	11.13	NA	40.75	NA	NA
MW-6	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.88	14.28	NA	37.60	NA	NA
MW-6	12/04/2000	231	NA	4.93	<0.500	<0.500	<0.500	4.57	NA	51.88	12.62	NA	39.26	NA	NA
MW-6	03/09/2001	789	NA	11.6	2.72	<2.00	<2.00	28.0	NA	51.88	8.65	NA	43.23	NA	NA
MW-6	06/27/2001	140	NA	<0.50	1.1	<0.50	<0.50	<2.5	NA	51.88	14.95	NA	36.93	NA	NA
MW-6	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.88	14.70	NA	37.18	NA	NA
MW-6	12/05/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.88	9.62	NA	42.26	NA	1.8
MW-6	02/26/2002	130	NA	<0.50	2.6	0.69	4.1	NA	6.4	51.88	10.14	NA	41.74	NA	NA
MW-6	06/06/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.88	13.52	NA	38.36	NA	NA
MW-6	09/09/2002	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.86	14.92	NA	36.94	NA	NA
MW-6	12/19/2002	NA	NA	NA	NA	NA	NA	NA	NA	51.86	8.22	NA	43.64	NA	NA
MW-6	03/28/2003	740	NA	<0.50	<0.50	<0.50	<0.50	NA	14	51.86	12.57	NA	39.29	NA	NA
MW-6	06/30/2003	NA	NA	NA	NA	NA	NA	NA	NA	51.86	14.14	NA	37.72	NA	NA
MW-6	**09/25/2003**	**<250**	**NA**	**<2.5**	**160**	**<2.5**	**<5.0**	**NA**	**5.3**	**51.86**	**14.30**	**NA**	**37.56**	**NA**	**NA**

WELL CONCENTRATIONS
Former Shell Service Station
8930 Bancroft Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (mg/L)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to September 20, 2001, analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to September 20, 2001, analyzed by EPA Method 8020.
MTBE = Methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-phase hydrocarbons
GW = Groundwater
ug/L = Parts per billion
MSL = Mean sea level
ft = Feet
<n = Below detection limit
NA = Not applicable
DO = Dissolved oxygen
mg/L = Parts per million

Notes:
a = This sample analyzed outside of EPA recommended holding time.
b = SPH detected in well, but exact thickness could not be measured.
c = Hydrocarbon does not match pattern of laboratory's standard.
When separate-phase hydrocarbons are present, groundwater elevation is adjusted using the relation:
Groundwater Elevation = Top-of-Casing Elevation - Depth to Water + (0.8 x Hydrocarbon Thickness).
Site surveyed February 12 and May 16, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

SEVERN TRENT STL

Submission#: 2003-10-0228

Blaine Tech Services, Inc.

October 17, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 031003-DA4
Project: 98995742
Site: 8930 Bancroft Avenue, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 10/06/2003 13:20
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/20/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031003-DA4
98995742

Received: 10/06/2003 13:20

Site: 8930 Bancroft Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	10/03/2003 14:28	Water	1

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031003-DA4
98995742

Received: 10/06/2003 13:20

Site: 8930 Bancroft Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2003-10-0228 - 1
Sampled:	10/03/2003 14:28	Extracted:	10/16/2003 15:46
Matrix:	Water	QC Batch#:	2003/10/16-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	54	50	ug/L	1.00	10/16/2003 15:46	g
Benzene	ND	0.50	ug/L	1.00	10/16/2003 15:46	
Toluene	ND	0.50	ug/L	1.00	10/16/2003 15:46	
Ethylbenzene	ND	0.50	ug/L	1.00	10/16/2003 15:46	
Total xylenes	ND	1.0	ug/L	1.00	10/16/2003 15:46	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/16/2003 15:46	
Surrogate(s)						
1,2-Dichloroethane-d4	102.5	76-130	%	1.00	10/16/2003 15:46	
Toluene-d8	102.5	78-115	%	1.00	10/16/2003 15:46	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031003-DA4
98995742

Received: 10/06/2003 13:20

Site: 8930 Bancroft Avenue, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/10/16-1C.62**

MB: 2003/10/16-1C.62-014 — Date Extracted: 10/16/2003 10:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/16/2003 10:14	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/16/2003 10:14	
Benzene	ND	0.5	ug/L	10/16/2003 10:14	
Toluene	ND	0.5	ug/L	10/16/2003 10:14	
Ethylbenzene	ND	0.5	ug/L	10/16/2003 10:14	
Total xylenes	ND	1.0	ug/L	10/16/2003 10:14	
Surrogates(s)					
1,2-Dichloroethane-d4	103.6	76-130	%	10/16/2003 10:14	
Toluene-d8	95.7	78-115	%	10/16/2003 10:14	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031003-DA4
98995742

Received: 10/06/2003 13:20

Site: 8930 Bancroft Avenue, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/10/16-1C.62**

LCS 2003/10/16-1C.62-030 — Extracted: 10/16/2003 — Analyzed: 10/16/2003 09:30

LCSD 2003/10/16-1C.62-052 — Extracted: 10/16/2003 — Analyzed: 10/16/2003 09:52

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.4	20.8	25	97.6	83.2	15.9	65-165	20		
Benzene	23.0	21.4	25	92.0	85.6	7.2	69-129	20		
Toluene	23.9	21.9	25	95.6	87.6	8.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	521	496	500	104.2	99.2		76-130			
Toluene-d8	514	486	500	102.8	97.2		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031003-DA4
98995742

Received: 10/06/2003 13:20

Site: 8930 Bancroft Avenue, Oakland

Legend and Notes

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Lab Identification (if necessary):
Address:
City, State, Zip:

1003-10 SHELL Chain Of Custody Record

7-8127

Shell Project Manager to be Invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 2

SAP or CRMT NUMBER (TS/CRMT): [redacted]

DATE: 10/03/03

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services	LOG CODE: BTSS	SITE ADDRESS (Street and City): 8930 Bancroft Avenue, Oakland
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		GLOBAL ID NO.:
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		EDF DELIVERABLE TO (Responsible Party or Designee): Anni Kreml
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com
PHONE NO.: 510-420-3335	E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: BTS # 031003-DA4
SAMPLER NAME(S) (Print): Matt Pyrch / Dave Albut		LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: ______

GC/MS MTBE CONFIRMATION: HIGHEST ______ HIGHEST per BORING ______ ALL ______

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

4.4°C

TEMPERATURE ON RECEIPT C°

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)									Field Notes
	MW-2	10/03/03	1428	W	3	X	X		X																

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature] 1700	[signature]	10/6/03	1320
[signature] 1320	Denise Harrington / STL-SF	10/6/03	1700

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

O&D Graphic (714) 895-5707

SEVERN TRENT STL

Submission#: 2003-09-1007

Blaine Tech Services, Inc.

October 09, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 030925-AC1
Project: 98995742
Site: 8930 Bancroft Avenue, Oakland

Dear Mr.Gearhart,

Attached is our report for your samples received on 09/26/2003 14:10
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/10/2003 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,

Vincent Vancil
Project Manager

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	09/25/2003 10:30	Water	1
MW-3	09/25/2003 10:15	Water	2
MW-4	09/25/2003 09:55	Water	3
MW-5	09/25/2003 09:05	Water	4
MW-6	09/25/2003 09:35	Water	5

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-1**	Lab ID:	2003-09-1007 - 1
Sampled:	09/25/2003 10:30	Extracted:	10/6/2003 13:25
Matrix:	Water	QC Batch#:	2003/10/06-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/06/2003 13:25	
Benzene	ND	0.50	ug/L	1.00	10/06/2003 13:25	
Toluene	ND	0.50	ug/L	1.00	10/06/2003 13:25	
Ethylbenzene	ND	0.50	ug/L	1.00	10/06/2003 13:25	
Total xylenes	ND	1.0	ug/L	1.00	10/06/2003 13:25	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/06/2003 13:25	
Surrogate(s)						
1,2-Dichloroethane-d4	79.6	76-130	%	1.00	10/06/2003 13:25	
Toluene-d8	99.2	78-115	%	1.00	10/06/2003 13:25	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2003-09-1007 - 2
Sampled:	09/25/2003 10:15	Extracted:	10/4/2003 01:38
Matrix:	Water	QC Batch#:	2003/10/03-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/04/2003 01:38	
Benzene	ND	0.50	ug/L	1.00	10/04/2003 01:38	
Toluene	2.0	0.50	ug/L	1.00	10/04/2003 01:38	
Ethylbenzene	0.73	0.50	ug/L	1.00	10/04/2003 01:38	
Total xylenes	ND	1.0	ug/L	1.00	10/04/2003 01:38	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	10/04/2003 01:38	
Surrogate(s)						
1,2-Dichloroethane-d4	115.2	76-130	%	1.00	10/04/2003 01:38	
Toluene-d8	98.2	78-115	%	1.00	10/04/2003 01:38	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-4**	Lab ID:	2003-09-1007 - 3
Sampled:	09/25/2003 09:55	Extracted:	10/4/2003 01:59
Matrix:	Water	QC Batch#:	2003/10/03-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/04/2003 01:59	
Benzene	ND	0.50	ug/L	1.00	10/04/2003 01:59	
Toluene	ND	0.50	ug/L	1.00	10/04/2003 01:59	
Ethylbenzene	ND	0.50	ug/L	1.00	10/04/2003 01:59	
Total xylenes	ND	1.0	ug/L	1.00	10/04/2003 01:59	
Methyl tert-butyl ether (MTBE)	110	0.50	ug/L	1.00	10/04/2003 01:59	
Surrogate(s)						
1,2-Dichloroethane-d4	112.5	76-130	%	1.00	10/04/2003 01:59	
Toluene-d8	94.7	78-115	%	1.00	10/04/2003 01:59	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-5**	Lab ID:	2003-09-1007 - 4
Sampled:	09/25/2003 09:05	Extracted:	10/4/2003 02:19
Matrix:	Water	QC Batch#:	2003/10/03-2A.69

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	12000	500	ug/L	10.00	10/04/2003 02:19	
Benzene	ND	5.0	ug/L	10.00	10/04/2003 02:19	
Toluene	ND	5.0	ug/L	10.00	10/04/2003 02:19	
Ethylbenzene	24	5.0	ug/L	10.00	10/04/2003 02:19	
Total xylenes	210	10	ug/L	10.00	10/04/2003 02:19	
Methyl tert-butyl ether (MTBE)	220	5.0	ug/L	10.00	10/04/2003 02:19	
Surrogate(s)						
1,2-Dichloroethane-d4	123.0	76-130	%	10.00	10/04/2003 02:19	
Toluene-d8	102.5	78-115	%	10.00	10/04/2003 02:19	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-6**	Lab ID:	2003-09-1007 - 5
Sampled:	09/25/2003 09:35	Extracted:	10/6/2003 13:47
Matrix:	Water	QC Batch#:	2003/10/06-1A.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	250	ug/L	5.00	10/06/2003 13:47	
Benzene	ND	2.5	ug/L	5.00	10/06/2003 13:47	
Toluene	160	2.5	ug/L	5.00	10/06/2003 13:47	
Ethylbenzene	ND	2.5	ug/L	5.00	10/06/2003 13:47	
Total xylenes	ND	5.0	ug/L	5.00	10/06/2003 13:47	
Methyl tert-butyl ether (MTBE)	5.3	2.5	ug/L	5.00	10/06/2003 13:47	
Surrogate(s)						
1,2-Dichloroethane-d4	85.9	76-130	%	5.00	10/06/2003 13:47	
Toluene-d8	107.0	78-115	%	5.00	10/06/2003 13:47	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/10/03-2A.69**

MB: 2003/10/03-2A.69-053 — Date Extracted: 10/03/2003 23:53

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/03/2003 23:53	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/03/2003 23:53	
Benzene	ND	0.5	ug/L	10/03/2003 23:53	
Toluene	ND	0.5	ug/L	10/03/2003 23:53	
Ethylbenzene	ND	0.5	ug/L	10/03/2003 23:53	
Total xylenes	ND	1.0	ug/L	10/03/2003 23:53	
Surrogates(s)					
1,2-Dichloroethane-d4	89.3	76-130	%	10/03/2003 23:53	
Toluene-d8	94.6	78-115	%	10/03/2003 23:53	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Method Blank — **Water** — **QC Batch # 2003/10/06-1A.64**

MB: 2003/10/06-1A.64-028 — Date Extracted: 10/06/2003 11:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/06/2003 11:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/06/2003 11:28	
Benzene	ND	0.5	ug/L	10/06/2003 11:28	
Toluene	ND	0.5	ug/L	10/06/2003 11:28	
Ethylbenzene	ND	0.5	ug/L	10/06/2003 11:28	
Total xylenes	ND	1.0	ug/L	10/06/2003 11:28	
Surrogates(s)					
1,2-Dichloroethane-d4	77.3	76-130	%	10/06/2003 11:28	
Toluene-d8	97.2	78-115	%	10/06/2003 11:28	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2003/10/03-2A.69**

LCS 2003/10/03-2A.69-008 Extracted: 10/03/2003 Analyzed: 10/03/2003 23:08

LCSD 2003/10/03-2A.69-031 Extracted: 10/03/2003 Analyzed: 10/03/2003 23:31

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	32.2	27.8	25	128.8	111.2	14.7	65-165	20		
Benzene	32.0	29.2	25	128.0	116.8	9.2	69-129	20		
Toluene	31.5	28.3	25	126.0	113.2	10.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	416	492	500	83.2	98.4		76-130			
Toluene-d8	565	497	500	113.0	99.4		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

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Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260FAB

Laboratory Control Spike — **Water** — **QC Batch # 2003/10/06-1A.64**

LCS 2003/10/06-1A.64-044 — Extracted: 10/06/2003 — Analyzed: 10/06/2003 10:44

LCSD 2003/10/06-1A.64-006 — Extracted: 10/06/2003 — Analyzed: 10/06/2003 11:06

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	22.4	21.8	25	89.6	87.2	2.7	65-165	20		
Benzene	23.9	24.0	25	95.6	96.0	0.4	69-129	20		
Toluene	26.0	26.0	25	104.0	104.0	0.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	393	389	500	78.6	77.8		76-130			
Toluene-d8	494	505	500	98.8	101.0		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

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San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 030925-AC1
98995742

Received: 09/26/2003 14:10

Site: 8930 Bancroft Avenue, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

SHELL Chain Of Custody Record

79218

Lab Destination (if necessary)

Address:

City, State, Zip

Shell Project Manager to be Invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

2003-09-1007

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 2

SAP or CRMT NUMBER (TS/CRMT):

DATE: 9/25/03

PAGE: 1 of 1

CONSULTING COMPANY	LOG CODE	SITE ADDRESS (Street and City)	GLOBAL ID NO.
Blaine Tech Services	BTSS	8930 Bancroft Avenue, Oakland	

ADDRESS	EDF DELIVERABLE TO (Responsible Party or Designee)	PHONE NO.	E-MAIL	CONSULTANT PROJECT NO.
1680 Rogers Avenue, San Jose, CA 95112	Anni Kreml	510-420-3335	ShellOaklandEDF@cambria-env.com	BTS # 030925-AG

PROJECT CONTACT (Hardcopy or PDF Report to)	TELEPHONE	FAX	E-MAIL
Leon Goarhart	408-573-0555	408-573-7771	lgearhart@blainetech.com

SAMPLER NAME(S) (Print): Aaron Costa

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST: HIGHEST per BORING: ALL:

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH - Diesel, Extractable (8015m)
	MW-1	9/25	1030	W	3	X	X		X						
	MW-3	"	1015	"	3	X	X		X						
	MW-4	"	0955	"	3	X	X		X						
	MW-5	"	0905	"	3	X	X		X						
	MW-6	"	0935	"	3	X	X		X						

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

2.1°C

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Aaron Costa		9/26/03	1740
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
9/26/03 1740			
Relinquished by: (Signature)	Received by: (Signature) Noanak	Date 9/26/03	Time 1740

DISTRIBUTION: White with final report; Green to File; Yellow and Pink to Client

10/1999 Revision

O&G Graphic (714) 895-8703

WELL GAUGING DATA

Project # 051003 - 044 Date 10/03/03 Client Shell

Site 6930 Bancroft, Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or (TOC)	
MW-2	3					15.03	19.20	19.20	

SHELL WELL MONITORING DATA SHEET

BTS #: 031003-DA4	Site: 8930 Bancroft Oakland
Sampler: DA	Date: 10/3/03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 19.20	Depth to Water (DTW): 15.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.86	

Purge Method: (X) Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (X) Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

2.7 (Gals.) X	3	= 8.1 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
14:22	71.8	6.8	388	7200	2.7	tan, turbid
14:24	70.2	6.7	379	>200	5.4	"
14:28	70.3	6.8	379	>200	8.1	"

Did well dewater? Yes No Gallons actually evacuated: 8.1

Sampling Date: 10/03/03 Sampling Time: 14:28 Depth to Water: 15.19 (silt depth)

Sample I.D.: MW-2 Laboratory: (STL) Other_____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 030925-AC1 Date 9/25/03 Client 98995742

Site 8930 Bancroft oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	3					15.13	16.84	TOC	
MW-2	3	parked over - unable to move					19.20		
MW-3	3					13.22	19.60		
MW-4	3					13.10	19.55		
MW-5	3					13.60	19.63		
MW-6	3					14.30	19.70		

SHELL WELL MONITORING DATA SHEET

BTS #: 030925-AC1	Site: 78995742
Sampler: AC	Date: 9/25/03
Well I.D.: MW-1	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 16.84	Depth to Water (DTW): 15.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.47	

Purge Method: (Bailer) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer) Disposable Bailer; Extraction Port; Dedicated Tubing; Other:_____

0.6 (Gals.) X 3 = 1.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1022	65.4	6.0	549	689	1	cloudy
well	dewatered		@ 1 gal			DTW = 15.97
1030	65.4	6.1	557	886	—	

Did well dewater? (Yes) No — Gallons actually evacuated: 1

Sampling Date: 9/25/03 Sampling Time: 1030 Depth to Water: 15.47

Sample I.D.: MW-1 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030925-AC1	Site: 98995742
Sampler: AC	Date: 9/25/03
Well I.D.: MW-2	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

_____(Gals.) X _____ = _____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
well	is parked	over-	doors	locked,	unable	to move

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 9/25/03 Sampling Time: Depth to Water:

Sample I.D.: MW-2 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030925-AC1	Site: 98995742
Sampler: AC	Date: 9/25/03
Well I.D.: MW-3	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 19.60	Depth to Water (DTW): 13.22
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.49	

Purge Method: (Bailer) Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: (Bailer) Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

2.4 (Gals.) X 3 = 7.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (uS))	Turbidity (NTUs)	Gals. Removed	Observations
1001	66.2	5.8	1228	841	2.5	gray, foul odor
well	dewatered	@	3 gal			DTW = 16.37
1015	66.3	5.9	1287	936	—	

Did well dewater? (Yes) No Gallons actually evacuated: 3

Sampling Date: 9/25/03 Sampling Time: 1015 Depth to Water: 14.49

Sample I.D.: MW-3 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030925-AC1	Site: 98995742
Sampler: AC	Date: 9/25/03
Well I.D.: MW-4	Well Diameter: 2 (3) 4 6 8 ___
Total Well Depth (TD): 19.55	Depth to Water (DTW): 13.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.39	

Purge Method: (Bailer)
Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

2.4 (Gals.) X	3	=	7.2 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0943	69.3	6.3	520	>1000	2.5	grey, odor
well dewatered @ 3 gal						DTW = 16.88
0955	69.4	6.3	536	>1000	—	

Did well dewater? (Yes) No Gallons actually evacuated: 3

Sampling Date: 9/25/03 Sampling Time: 0955 Depth to Water: 14.39

Sample I.D.: MW-4 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030925-AC1	Site: 98995742
Sampler: AC	Date: 9/25/03
Well I.D.: MW-5	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 19.63	Depth to Water (DTW): 13.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.80	

Purge Method: (Bailer) Waterra Peristaltic Extraction Pump Other_____ Disposable Bailer Positive Air Displacement Electric Submersible

Sampling Method: (Bailer) Disposable Bailer Extraction Port Dedicated Tubing Other:_____

1.1 (Gals.) X 3 = 3.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0856	70.4	5.5	374	102	1.5	odor, sheen
0858	70.3	5.8	368	157	3	" "
0900	70.3	5.9	364	186	4.5	" "

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 9/25/03 Sampling Time: 0905 Depth to Water: 13.96

Sample I.D.: MW-5 Laboratory: (STL) Other_____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 030925-AC1	Site: 98995742
Sampler: AC	Date: 9/25/03
Well I.D.: MW-6	Well Diameter: 2 (3) 4 6 8 ____
Total Well Depth (TD): 19.70	Depth to Water (DTW): 14.30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.38	

Purge Method: (Bailer)
Disposable Bailer
Positive Air Displacement
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other ____

Sampling Method: (Bailer)
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ____

2 (Gals.) X	3	=	6 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0927	67.2	6.3	1332	>1000	2	gray, sheen
well	dewatered	@	3 gal			DTW = 17.22
0935	67.3	6.3	1341	>1000	—	

Did well dewater? (Yes) No Gallons actually evacuated: 3

Sampling Date: 9/25/03 Sampling Time: 0935 Depth to Water: 15.29

Sample I.D.: MW-6 Laboratory: (STL) Other ____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV